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Certificate No.: T- 4358

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-03-25-01 **Date: 31-03-2017**

Customer : Asisstant Executive Engineer, Shettyhalli, Sub Division, BBMP, Bangalore.

Address : Shettyhalli, Sub Division, BBMP, Bangalore.

Project Name : Improvements of RCC drains 21st cross near pipeline road BHEL Mini Colony Mallasandra in ward no.13 in Shettyhalli Sub Division.

Agency : Sri Bharath Kumar V, #530, Kaliyamma Temple Road, Kuvempu Nagara, 2nd stage, Jalahalli East, Bangaluru.

Customer's Reference : EE/DD/WO/141/16-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-03-2017

Sample ID No : 2017-03-25-01-02

Sample Type : Fine Aggregates

Reference to BIS codes : IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete
IS: 2386 :1963(Part - 1, 2, 3) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities.
IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation

Date of test : 25-03-2017

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	9	9	0.9	99.1	90-100	90-100	90-100	95-100
3	2.36 mm	48	57	5.7	94.3	60-95	75-100	85-100	95-100
4	1.18 mm	67	124	12.4	87.6	30-70	55-90	75-100	90-100
5	600 micron	287	411	41.1	58.9	15-34	35-59	60-79	80-100
6	300 micron	298	709	70.9	29.1	5-20	8-30	12-40	15-50
7	150 micron	205	914	91.4	8.6	0-10	0-10	0-10	0-15
8	Pan	86	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-03-25-01** **Date: 31-03-2017**

Sample ID No : 2017-03-25-01-02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970 (RA2016)
1	Water Absorption(%)	2.75	–
2	Specific Gravity	2.52	–
3	Material finer than 75 micron(%)	3.15	Not more than 15 percent

Note:
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Prepared by
Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE-13
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ನಂ.೩೦. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ. ಬೆಂಗಳೂರು

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-25-01** **Date: 31-03-2017**
Customer	:	Asisstant Executive Engineer, Shettyhalli, Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of RCC drains 21st cross near pipeline road BHEL Mini Colony Mallasandra in ward no.13 in Shettyhalli Sub Division.
Agency	:	Sri Bharath Kumar V, #530, Kaliyamma Temple Road, Kuvempu Nagara, 2nd stage, Jalahalli East, Bangaluru.
Customer Reference	:	EE/DD/WO/141/16-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-03-2017
Sample ID No	:	2017-03-25-01-01(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	25-03-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken: 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	190	190	3.8	96.2	95-100
3	10 mm	2650	2840	56.8	43.2	25-55
4	4.75 mm	2050	4890	97.8	2.2	0-5
5	Pan	110	5000	100	0	–

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ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬೆಂಗಳೂರು.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-04-10-01 **Date: 03-05-2017**

Customer : Asisstant Executive Engineer, Shettyhalli, Sub Division, BBMP, Bangalore.

Address : Shettyhalli, Sub Division, BBMP, Bangalore.

Project Name : Improvements of RCC drains 21st cross near pipeline road BHEL Mini Colony Mallasandra in ward no.13 in Shettyhalli Sub Division.

Agency : Sri Bharath Kumar V, #530, Kaliyamma Temple Road, Kuvempu Nagara, 2nd stage, Jalahalli East, Bangaluru.

Customer's Reference : EE/DD/WO/141/16-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-2017

Sample ID No : 2017-04-10-01-02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	04/04/2017	02/05/2017	150.29 X 150.19 X 150.11	22572	8.390	476.3	21.1	21.4
2	Drain Concrete	M20	04/04/2017	02/05/2017	150.34 X 150.60 X 150.79	22641	8.312	482.3	21.3	
3	Drain Concrete	M20	04/04/2017	02/05/2017	150.25 X 150.95 X 150.70	22680	8.322	492.2	21.7	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Prepared by
Harsitha

KE-13
ಕಿ. ಅಭಿಯಂತರರು ಉಪವಿಭಾಗ, ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ನಂ. ೧೨೬, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-04-10-01 **Date: 12-04-2017**

Customer : Asisstant Executive Engineer, Shettyhalli, Sub Division, BBMP, Bangalore.

Address : Shettyhalli, Sub Division, BBMP, Bangalore.

Project Name : Improvements of RCC drains 21st cross near pipeline road BHEL Mini Colony Mallasandra in ward no.13 in Shettyhalli Sub Division.

Agency : Sri Bharath Kumar V, #530, Kaliyamma Temple Road, Kuvempu Nagara, 2nd stage, Jalahalli East, Bangaluru.

Customer's Reference : EE/DD/WO/141/16-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-2017

Sample ID No : 2017-04-10-01-01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	04/04/2017	11/04/2017	150.65 X 150.34 X 150.32	22649	8.213	348.8	15.4	15.5
2	Drain Concrete	M20	04/04/2017	11/04/2017	150.65 X 150.98 X 150.45	22745	8.299	348.0	15.3	
3	Drain Concrete	M20	04/04/2017	11/04/2017	150.87 X 150.24 X 150.65	22667	8.388	360.4	15.9	

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ಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಪತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-25-01**	**Date: 31-03-2017**
Customer	:	Asisstant Executive Engineer, Shettyhalli, Sub Division, BBMP, Bangalore.	
Address	:	Shettyhalli, Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements of RCC drains 21st cross near pipeline road BHEL Mini Colony Mallasandra in ward no.13 in Shettyhalli Sub Division.	
Agency	:	Sri Bharath Kumar V, #530, Kaliyamma Temple Road, Kuvempu Nagara, 2nd stage, Jalahalli East, Bangaluru.	
Customer's Reference	:	EE/DD/WO/141/16-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	25-03-2017	
Sample ID No	:	2017-03-25-01-03	
Sample Type	:	Indus Fe 500	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	25-03-2017	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	8mm	0.392	526	610	19.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	8mm	Satisfactory	Satisfactory

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-25-01** **Date: 31-03-2017**
Customer	:	Asisstant Executive Engineer, Shettyhalli, Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of RCC drains 21st cross near pipeline road BHEL Mini Colony Mallasandra in ward no.13 in Shettyhalli Sub Division.
Agency	:	Sri Bharath Kumar V, #530, Kaliyamma Temple Road, Kuvempu Nagara, 2nd stage, Jalahalli East, Bangaluru.
Customer's Reference	:	EE/DD/WO/141/16-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-03-2017
Sample ID No	:	2017-03-25-01-04
Sample Type	:	Indus Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	25-03-2017

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	10mm	0.611	554	660	21.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	10mm	Satisfactory	Satisfactory

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Authorized Signature
Quality Manager

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ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಗಂಗೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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